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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/796,159	03/10/2004	Tae Yong Kim	K-0613	2541
34610 7590 09/21/2007 KED & ASSOCIATES, LLP P.O. Box 221200 Chantilly, VA 20153-1200			EXAMINER CONTEE, JOY KIMBERLY	
			ART UNIT 2617	PAPER NUMBER
			MAIL DATE 09/21/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/796,159

Applicant(s)

KIM, TAE YONG

Examiner

Joy K. Contee

Art Unit

2617

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 16 May 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-32 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,2,4-8,12-16,31 and 32 is/are rejected.
- 7) ☒ Claim(s) 3,9-11 and 17-30 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Arguments

1. Applicant's arguments, see remarks, filed 5/16/07, with respect to the rejection(s) of claim(s) 1-32 under 35 USC 102 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Egan et al. (Egan), US 6,937,572.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1,2,4-8,12-16 and 31-32 are rejected under 35 U.S.C. 102(e) as being anticipated by Egan, US 6,937,572.

Regarding claim 1, Egan discloses an apparatus for tracing a GTP resource, comprising: a call tracing unit which receives a call tracing command from an operator through an MMI and performs a call tracing function in response (col. 3, lines 10-20); a call tracing DB which stores call-tracing data currently processed (col. 3, lines 46-52 and col. 4, lines 8-24); a GTP-U tracing unit which traces a GTP-U message and reporting the GTP-U message to the call tracing

Art Unit: 2617

unit (col. 3, lines 20-28); a SGSN interface unit which receives the GTP-U message outputted from the SGSN; and an internet interface unit which transmits the GTP-U message routed at the GTP-U tracing unit to an internet network (col. 4, lines 25-38).

Regarding claim 2, Egan discloses the apparatus of claim 1, further comprising: a call manager which sets a call for a subscriber, searches whether GTP-C tracing function for the subscriber is set in the tracing information DB when receiving the GTP-C, and transmits a corresponding GTP resource information to the call tracing unit when the corresponding GTP-C tracing function is set (col. 4, lines 4-24).

Regarding claim 4, Egan discloses a method for tracing a GTP resource, comprising: setting a tracing function for at least one reserved resource of a GTP-U by using a TEID for a subscriber to be traced; and outputting information for the reserved resource by detecting the GTP-U having the tracing function set therein (col. 3, lines 5-61).

Regarding claim 5, Egan discloses the method of claim 4, wherein setting the tracing function comprises: receiving tracing information for the subscriber from an operator; mapping the TEID allotted to the subscriber using the tracing information; and registering the tracing function of the GTP-U using the TEID; and storing the TEID together with the tracing information to a tracing information DB (col. 3, lines 5-61).

Regarding claim 6, Egan discloses the method of claim 5, wherein the tracing information includes at least one of an IMSI and an IP address of the

subscriber (page 2 [0024-0025], page 3 [0030-0031,0036] and page 4 [0039,0046]) (col. 3,lines 5-61).

Regarding claim 7, Egan discloses the method of claim 6, wherein the tracing information comprises a predetermined number of bits indicating a SGSN record type and a tracing type for classifying call watching, call tracing, and the user message tracing according to the SGSN record type (col. 3,lines 5-61).

Regarding claim 8, Egan discloses the method of claim 5, wherein the tracing information DB stores the tracing information, the TEID, and a trace count value notifying the number of the traced message (col. 3,lines 5-61).

Regarding claim 12, discloses the method of claim 4, further comprising: operating a timer corresponding to a tracing function the duration when the tracing information includes information of the tracing function duration (col. 3,lines 5-61).

Regarding claim 13, discloses the method of claim 12, further comprising: of canceling the GTP-U tracing function by deleting the TEID and the tracing information from the tracing information DB when the timer is terminated (col. 3,line 66 to col. 4,line 3).

Regarding claim 14, discloses the method of claim 4, further comprising: canceling the GTP-U tracing function when the subscriber call is canceled (col. 3,line 62 to col. 4,line 3).

Regarding claim 15, discloses the method of claim 14, wherein canceling the GTP-U tracing function comprises: transmitting a session termination signal including an identification information of subscriber whose call is cancelled; and

Art Unit: 2617

canceling the GTP-U tracing function by deleting the TEID and the tracing information from the tracing information DB using the identification information (col. 3,line 62 to col. 4,line 3).

Regarding claim 16, discloses a method for tracing a GTP resource, the GTP trafficked between a SGSN and a GGSN at an exchanger including the SGSN and the GGSN having a call tracing unit, a call manager, a tracing information DB, and GTP-U tracing unit, said method comprising: setting a tracing function for reserved resource of a GTP-U using TEID of a subscriber to be traced; detecting the GTP-U having the tracing function set therein; and outputting information for the reserved resource of the GTP-U message (page 2 [0024-0025], page 3 [0030-0031,0036] and page 4 [0039,0046]).

Regarding claim 31, Egan discloses the method of claim 16, further comprising: call tracing unit canceling the GTP-U tracing function when the call of the subscriber is canceled(page 2 [0024-0025], page 3 [0030-0031,0036] and page 4 [0039,0046]).

Regarding claim 32, Egan discloses the method of claim 31, wherein canceling the GTP-U tracing function comprises: transmitting a session termination signal having an identification information of the subscriber whose call is canceled from the call manager to the call tracing unit; and canceling the GTP-U tracing function by deleting the TEID and the tracing information from the tracing information DB using the identification information at the call tracing unit (col. 3,line 62 to col. 4,line 3).

Allowable Subject Matter

4. Claims 3,9-11 and 17-30 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joy K. Contee whose telephone number is 571.272.7906. The examiner can normally be reached on Monday through Friday, 5:30 a.m. to 2:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Appiah can be reached on 571.272.7904. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2617

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JC


JAY K. CONTEE
PATENT EXAMINER